

## **EXHIBITS**

# EXHIBIT A



POWER TRANSMISSION

**Pull out test**

**Carbon fiber cord (W238) vs**

**Hybrid cord (W071)**

# Test description

## INTERNATIONAL STANDARD ISO 12046

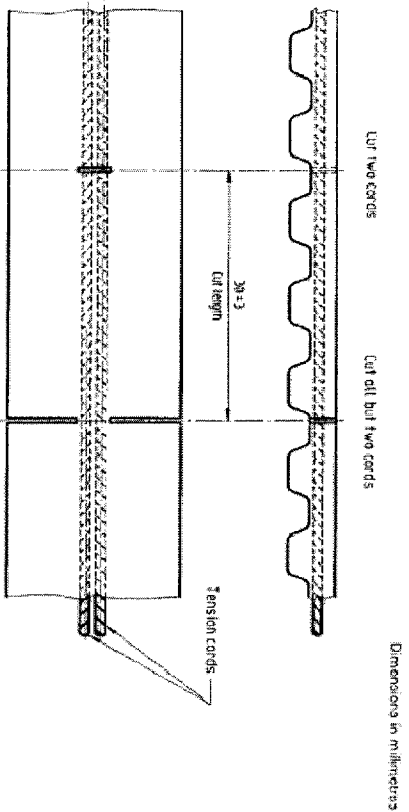


Figure 3 — Specimen for tension cord adhesion test

### 6.4 Tension-cord adhesion test

#### 6.4.1 Test specimens

Two specimens with a minimum length of 100 mm shall be taken from a belt. These shall be partially cut at two positions located 30 mm (see also 6.4.2) apart to extract two cords, as illustrated in figure 3.

#### 6.4.2 Procedure

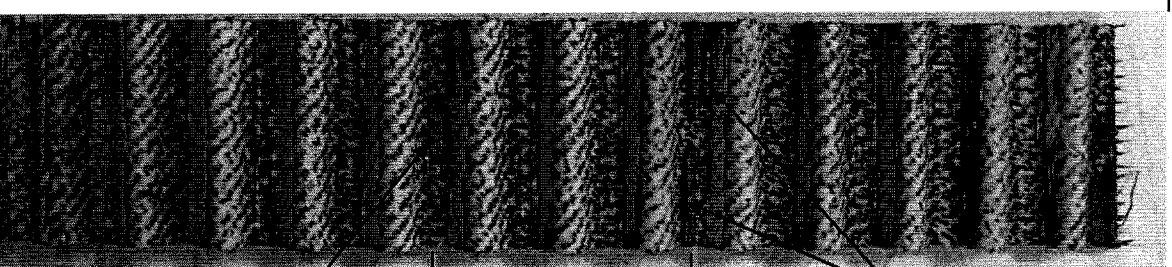
Place the test specimen in the grips of a tensile-testing device. Apply a tension force to the specimen at the speed of  $(50 \pm 5)$  mm/min until the two cords are extracted. If the cords break before they are extracted, the cut length may be reduced to a value that allows complete extraction.

Repeat the test using the second test specimen.

#### 6.4.3 Expression of results

The lower value obtained from the two specimens is taken as the tension cord adhesion value for a 30 mm length. Any tests showing results of improper sample preparation should be repeated.

minimum 100 mm



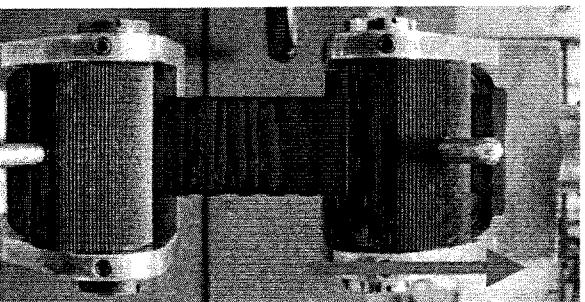
Cut all but two  
cords

~ 30 mm

Cut two cords

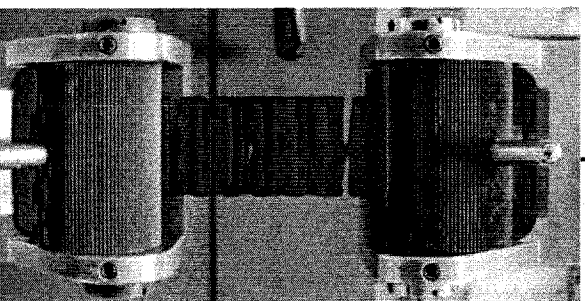
## Belt with carbon fiber cord (W238) and LAETITIA compound

Step 1

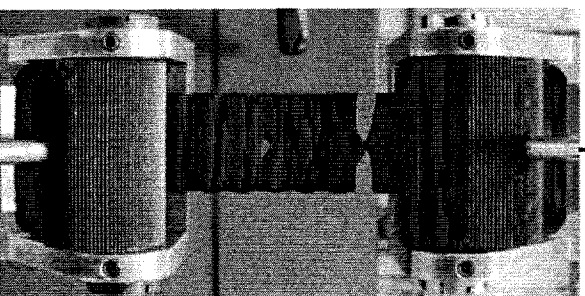


Traction direction at 50mm/min

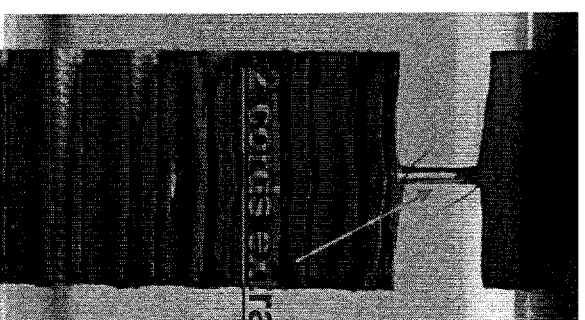
Step 2



Step 3

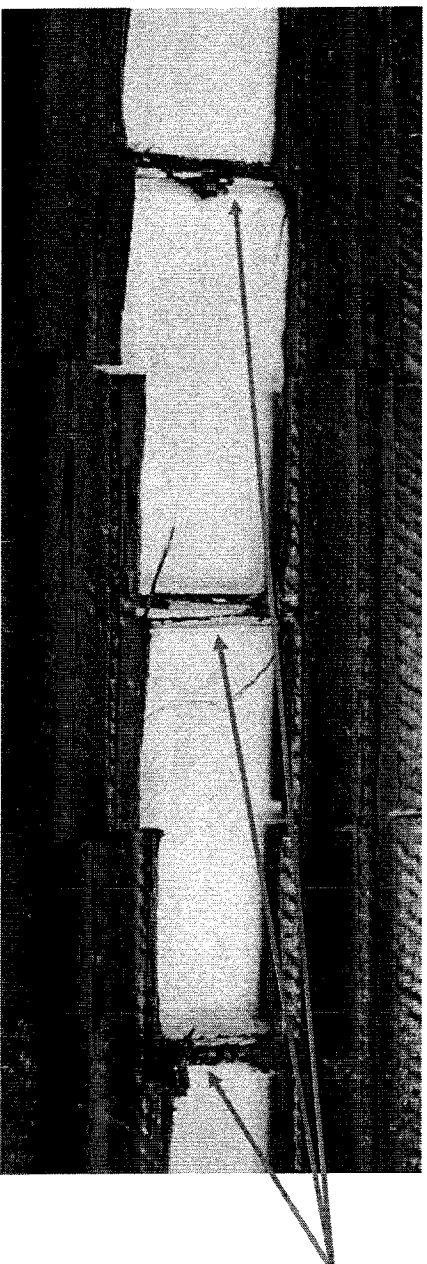


Pull out OK

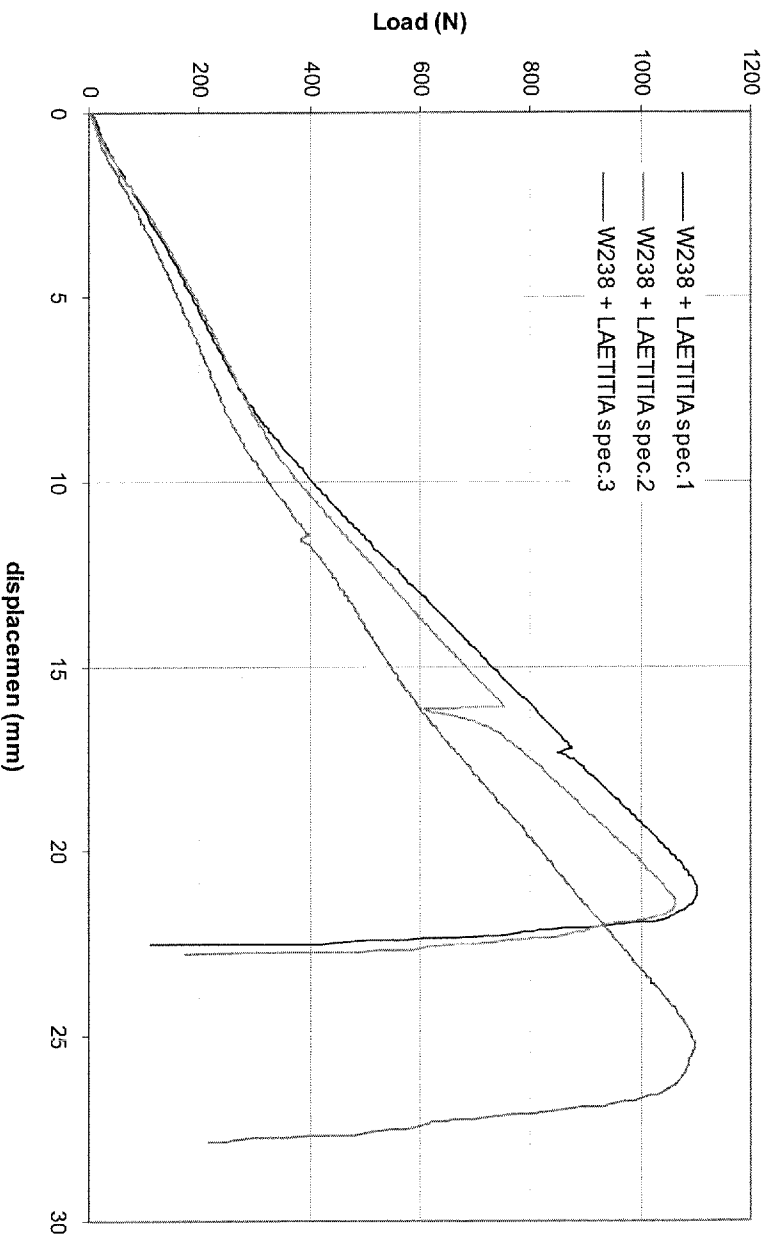


2 cords extracted

2 cords extracted



## Belt with carbon fiber cord (W238) and LAETITIA compound



Spcmn	Carico di Estrazione	
No.	N	
1	1104.2	
2 min	1062.1	
3	1097.7	
Mean	1088	
StdDev	22.7	

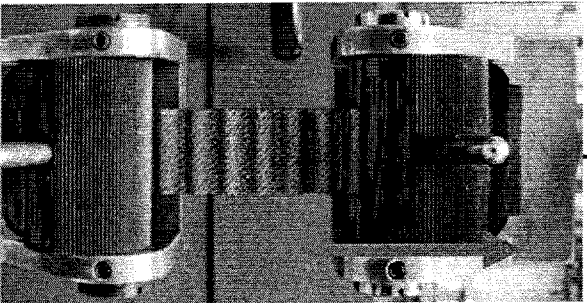
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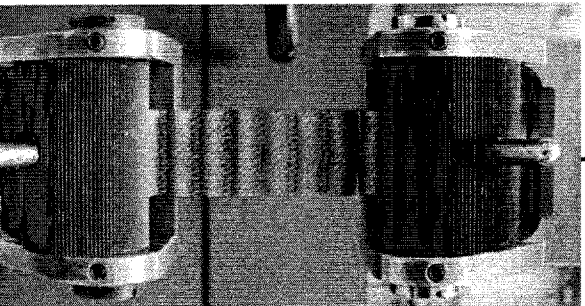
## Belt with Hybrid cord (W071) and LAETITIA compound

Step 1

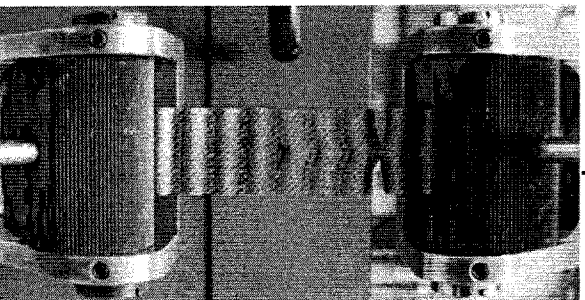


Traction direction at 50mm/min

Step 2



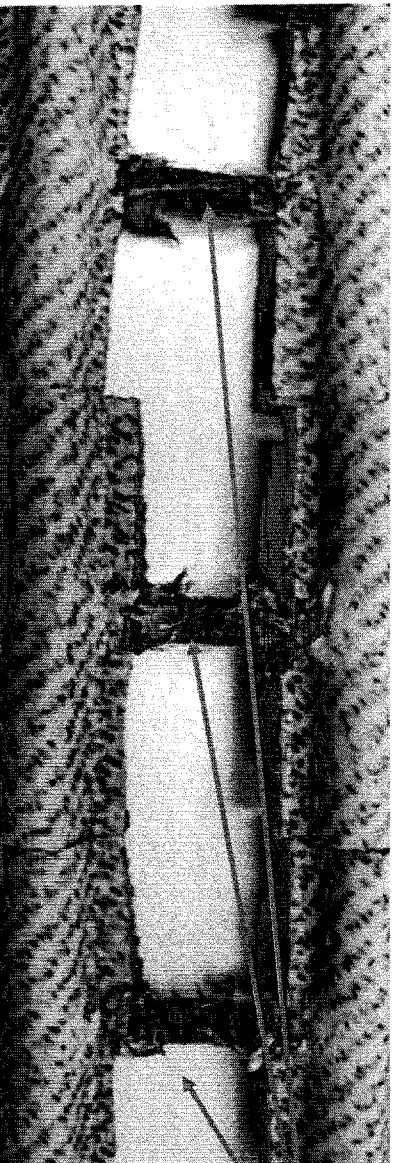
Step 3



Pull out OK



2 cords extracted

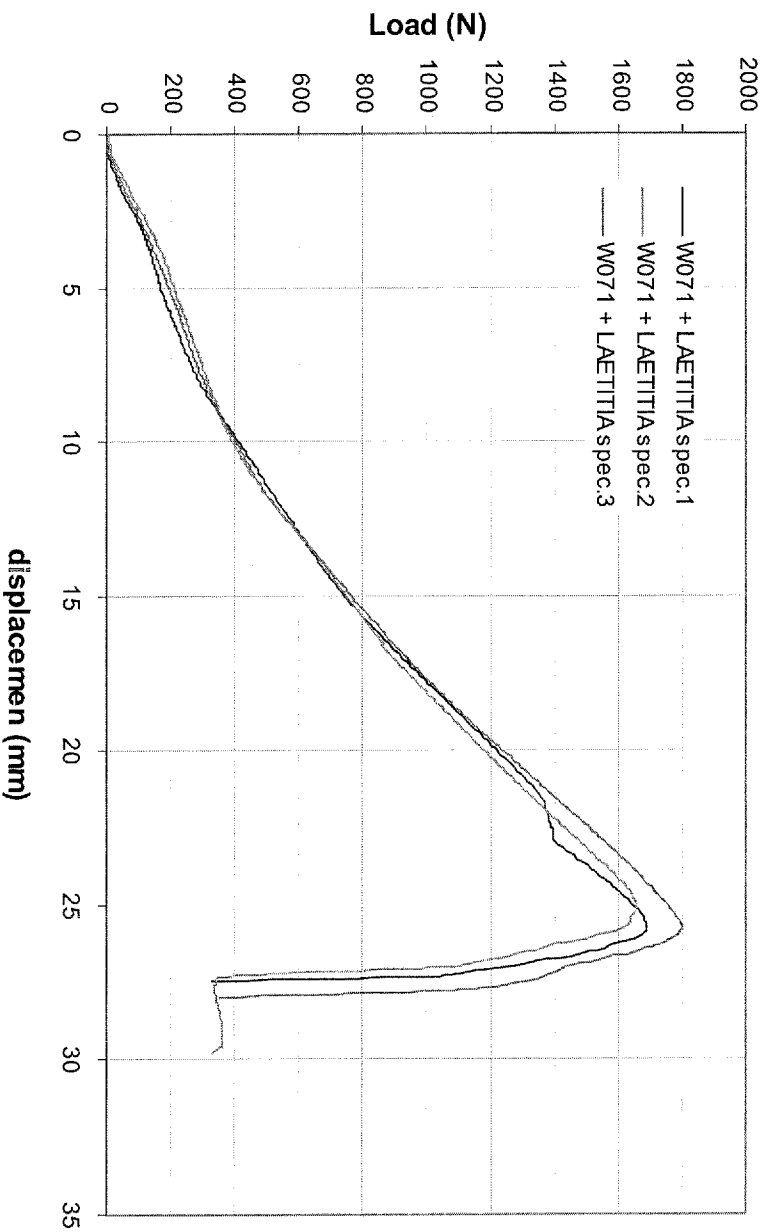


2 cords extracted

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## Belt with carbon Hybrid cord (W071) and LAETITIA compound



Specmn	Carico di Estrazione
No.	N
1	1688.9
2 min	1657.1
3	1798.5
Mean	1714.8
StdDev	74.2

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